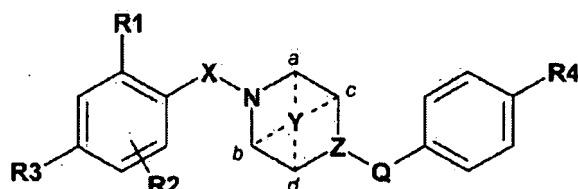


AMENDMENT TOTHE CLAIMS

1. (Currently Amended) A compound of formula I, or a pharmaceutically acceptable salt or ester thereof,



I

wherein

R1, R2 and R3 are independently selected from the group consisting of hydrogen, cyano, halo, nitro or optionally substituted ~~oxy~~, C₁₋₇ alkyl, C₂₋₇ alkenyl, C₂₋₇ alkynyl, ~~carbonyl~~, amino, ~~sulfur~~, cycloalkyl, heterocycloalkyl, aryl, heteroaryl; or substituted oxy, carbonyl, sulfur; or a substituent forming a bicyclic ring system of which the phenyl ring to which it is attached forms part of the bicycle ~~for example butadiene forming naphthyl, or heterobutadiene forming quinolinyl, quinoxalinyl or isoquinolinyl~~;

R4 is selected from the group consisting of hydrogen, cyano, halo, nitro or optionally substituted ~~oxy~~, C₁₋₇ alkyl, C₂₋₇ alkenyl, C₂₋₇ alkynyl, ~~carbonyl~~, amino, ~~sulfur~~, cycloalkyl, heterocycloalkyl, aryl, heteroaryl or a substituent forming a bicyclic ring system of which the phenyl ring to which it is attached forms part of the bicycle ~~for example butadiene forming naphthyl, or heterobutadiene forming quinolinyl, quinoxalinyl or isoquinolinyl~~; substituted oxy, carbonyl, sulfur;

X is -CH=CHCO-;

Y is ~~-(CH₂)_n, where n is 1-6, -CH₂OCH₂- or -CH₂NRCH₂-~~ and is bonded to two of the ring carbon atoms, ~~bonding being to either the ring carbon atoms a and b or the ring carbon atoms c and d~~; ~~wherein R is selected from the group consisting of H, optionally substituted, C₁₋₇ alkyl, carbonyl, acyl, acetyl or sulfonyl~~;

Z is N or -CH-;

Q is -CH₂-, -NH- or -O-;

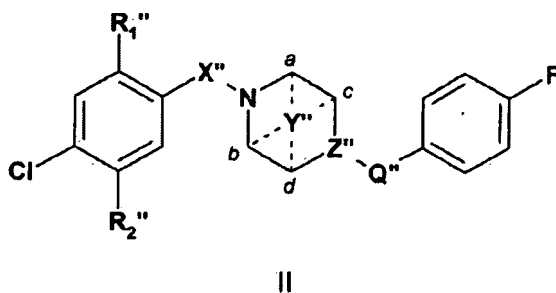
wherein when Z is N, Q is CH₂, and when Z is -CH-, Q is -NH- or -O-;

the optional substituents on ~~R1-R4~~ R1, R2, R3 and R4 are one or more, ~~e.g. 1-3~~ substituents, independently selected from the group consisting of hydrogen, oxo, cyano, halo, nitro or optionally substituted ~~oxy~~, C₁₋₇ alkyl, C₂₋₇ alkenyl, C₂₋₇ alkynyl, aryl, heteroaryl, amino, or substituted oxy, sulfur, sulfinyl, sulfonyl; wherein the optionally substituted substituents are optionally substituted once or more by, ~~e.g. 1-6 substituents~~, a substituent independently selected from the group consisting of hydrogen, oxo, cyano, halo, nitro, ~~oxy~~, hydroxy, C₁₋₇ alkyl, C₂₋₇ alkenyl, C₂₋₇ alkynyl, amino, ~~sulfur~~, cycloalkyl, heterocycloalkyl, aryl, heteroaryl; wherein oxy represents -O-; sulfur represents -S-, -S(O)- or -S(O)₂- and carbonyl represents -C(O)-.

2. (Currently Amended) A compound of formula I as defined in claim 1 wherein R1 is an optionally substituted amino, amide, ~~guanidine~~, sulfonyl, sulfonamide or heterocycloalkyl group, the optional substituents being selected from the group consisting of hydrogen, oxo, cyano, halo, nitro or optionally substituted ~~oxy~~, C₁₋₇ alkyl, C₂₋₇ alkenyl, C₂₋₇ alkynyl, heterocycloalkyl, amino, or substituted oxy, sulfur, sulfinyl, sulfonyl; wherein the optionally substituted substituents are optionally substituted once or more by a substituent independently selected from the group consisting of hydrogen, oxo, cyano, halo, nitro, ~~oxy~~, hydroxy, C₁₋₇ alkyl, C₂₋₇ alkenyl, C₂₋₇ alkynyl, amino, ~~sulfur~~, cycloalkyl, heterocycloalkyl, aryl.

3. (Previously Presented) A compound of formula I according to claim 1 wherein R2 is selected from the group consisting of methoxy, trifluoromethoxy, aryl, heteroaryl, C₁₋₇ alkyl.

4. (Currently Amended) A compound according to claim 1, having the formula II, or a pharmaceutically acceptable salt or ester thereof:



wherein

R_1'' and R_2'' are independently selected from the group consisting of hydrogen, cyano, halo, nitro or optionally substituted ~~oxy~~, C_{1-7} alkyl, C_{2-7} alkenyl, C_{2-7} alkynyl, ~~carbonyl~~, amino, ~~sulfur~~, cycloalkyl, heterocycloalkyl, aryl, heteroaryl or substituted oxy, carbonyl, sulfur; or a substituent forming a bicyclic ring system of which the phenyl ring to which it is attached forms part of the bicycle ~~for example butadiene forming naphthyl, or heterobutadiene forming quinoliny, quinoxaliny or isoquinoliny~~;

X'' is $-\text{CH}=\text{CHCO}-$;

Y'' is $-(\text{CH}_2)_n-$ where n is ~~1-6~~, $-\text{CH}_2\text{OCH}_2-$ or $-\text{CH}_2\text{NRCH}_2-$ and is bonded to ~~two of the ring carbon atoms, bonding being to either the ring carbon atoms a and b or the ring carbon atoms c and d~~, wherein R is selected from the group consisting of H , optionally substituted C_{1-7} alkyl, ~~carbonyl~~, acyl, acetyl or sulfonyl;

Z'' is N or $-\text{CH}-$;

Q'' is $-\text{CH}_2-$, $-\text{NH}-$ or $-\text{O}-$;

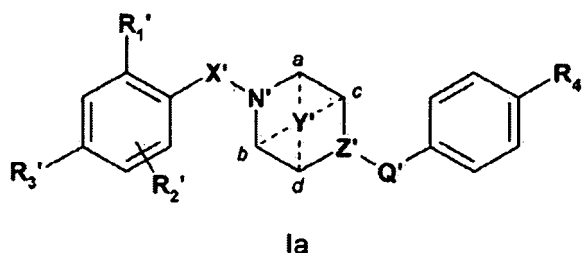
wherein when Z'' is N , Q'' is CH_2 , and when Z'' is $-\text{CH}-$, Q'' is $-\text{NH}-$ or $-\text{O}-$;

the optional substituents on R_1'' and R_2'' are one or more, ~~e.g. 1-3~~ substituents, independently selected from the group consisting of hydrogen, oxo, cyano, halo, nitro or optionally substituted ~~oxy~~, C_{1-7} alkyl, C_{2-7} alkenyl, C_{2-7} alkynyl, aryl, heteroaryl, amino, or substituted oxy, sulfur, sulfinyl, sulfonyl;

wherein the optionally substituted substituents are optionally substituted once or more by, ~~e.g., 1-6 substituents~~, a substituent independently selected from the group consisting of

hydrogen, oxo, cyano, halo, nitro, ~~oxy~~, hydroxy, C₁₋₇ alkyl, C₂₋₇ alkyenyl, C₂₋₇ alkynyl, amino, ~~sulfur~~, cycloalkyl, heterocycloalkyl, aryl, heteroaryl.

5. (Currently Amended) A compound of formula Ia, or a pharmaceutically acceptable salt or ester thereof,



wherein

R₁', R₂' and R₃' are independently selected from the group consisting of hydrogen, cyano, halo, nitro or optionally substituted ~~oxy~~, C₁₋₇ alkyl, C₂₋₇ alkyenyl, C₂₋₇ alkynyl, ~~carbonyl~~, amino, ~~sulfur~~, cycloalkyl, heterocycloalkyl, aryl, heteroaryl or substituted oxy, carbonyl, sulfur, or a substituent forming a bicyclic ring system of which the phenyl ring to which it is attached forms part of the bicycle ~~for example butadiene forming naphthyl, or heterobutadiene forming quinolinyl, quinoxalinyl or isoquinolinyl;~~

R₄' is selected from the group consisting of hydrogen, cyano, halo, nitro or optionally substituted ~~oxy~~, C₁₋₇ alkyl, C₂₋₇ alkyenyl, C₂₋₇ alkynyl, ~~carbonyl~~, amino, ~~sulfur~~, cycloalkyl, heterocycloalkyl, aryl, heteroaryl or substituted oxy, carbonyl, sulfur ~~a substituent forming a bicyclic ring system of which the phenyl ring to which it is attached forms part of the bicycle for example butadiene forming naphthyl, or heterobutadiene forming quinolinyl, quinoxalinyl or isoquinolinyl;~~

X' is -OCH₂CO- or -NHCH₂CO-;

Y' is ~~-(CH₂)_n, where n is 1-6, -CH₂OCH₂- or -CH₂NRCH₂-~~ and is bonded to ~~two of the ring carbon atoms, bonding being to either the ring carbon atoms a and b or the ring~~

carbon atoms c and d; wherein R is selected from the group consisting of H, optionally substituted C₁₋₇ alkyl, carbonyl, acyl, acetyl or sulfonyl;

Z' is N;

Q' is -CH₂-;

the optional substituents on R₁'-R₄' R₁', R₂', R₃', R₄' being one or more substituents, independently selected from the group consisting of hydrogen, oxo, cyano, halo, nitro or optionally substituted ~~oxy~~, C₁₋₇ alkyl, C₂₋₇ alkenyl, C₂₋₇ alkynyl, aryl, heteroaryl, amino or substituted oxy, sulfur, sulfinyl, sulfonyl;

wherein the optionally substituted substituents are optionally substituted once or more by a substituent independently selected from the group consisting of hydrogen, oxo, cyano, halo, nitro, ~~oxy~~, hydroxy, C₁₋₇ alkyl, C₂₋₇ alkenyl, C₂₋₇ alkynyl, amino, ~~sulfur~~, cycloalkyl, heterocycloalkyl, aryl, heteroaryl; wherein oxy represents -O-, sulfur represents -S-, -S(O)- or -S(O)₂- and carbonyl represents -C(O)-.

6. (Cancelled)

7. (Currently Amended) A compound of formula I, Ia, II, ~~IIa or IIb~~ as defined in claims 1, 4, 5 respectively, wherein the compound includes a radioisotope selected from the group of ¹¹C, ¹⁸F, ⁷⁵Br, ⁷⁶Br, ⁸⁰Br, ¹²³I, ¹²⁵I, ¹²⁸I, ¹³¹I, ¹³N, ¹⁵O.

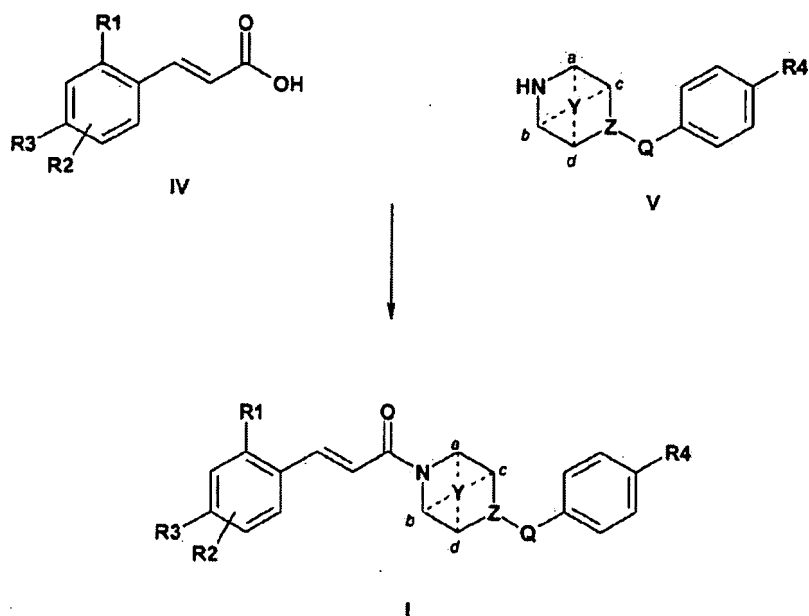
8-10 (Cancelled)

11. (Currently Amended) A method of ~~inhibiting chemokine receptors or of reducing inflammation in a mammal~~ treating a disease selected from the group consisting of rheumatoid arthritis, multiple sclerosis, Chronic Obstructive Pulmonary Disease, psoriasis, dermatitis and uveitis, in a human in need of such treatment which method comprises administering to said subject an effective amount of a compound according to claim 1.

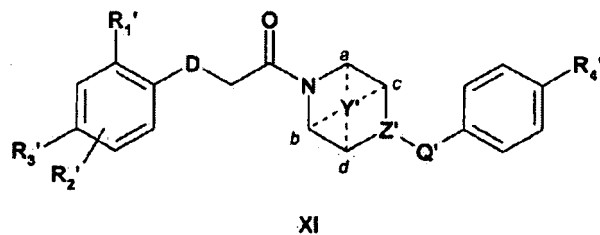
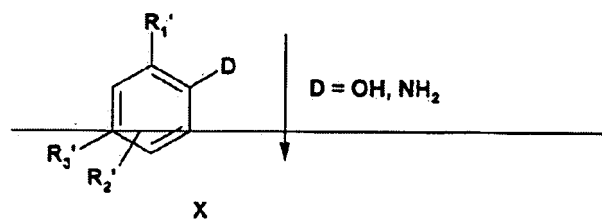
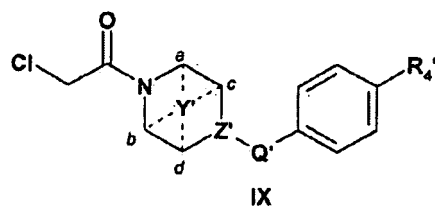
12-16 (Cancelled)

17. (Currently Amended) A process for the preparation of a compound of formula I;
II, Ia, Ib or IIb according to claim 1 including the step of:

(a) ~~where the compound is of formula I or II, or of formula Ib or IIb wherein X is~~
~~CH=CHCO~~, condensing a compound of formula IV with a compound of formula V in the
presence of a suitable amide coupling agent, and, ~~where Y is N, deprotection to give the~~
desired compound of formula I ~~(or corresponding compound of formula II, Ib or IIb):~~

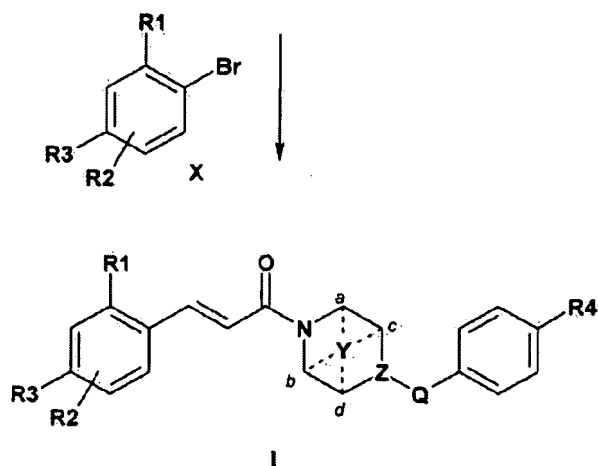
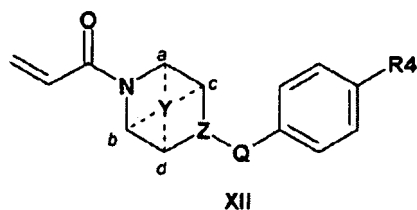


(b) ~~where the compound is of formula Ia or II, or a compound of formula Ib or IIb~~
~~wherein X is OCH₂CO, or NCH₂CO, reacting a compound of formula X with a~~
~~compound of formula IX in the presence of a strong base in an inert organic solvent:~~



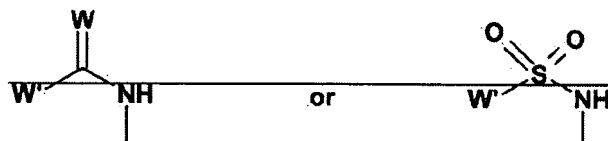
or

(c) ~~where the compound is of formula I or II, or of formula Ib or IIb wherein X is~~
~~CH=CHCO-~~, (b) reacting a compound of formula X with a compound of formula XII in
 the presence of a suitable reagent ~~such as a palladium catalyst~~ and a base to produce
 the desired compound of formula I:



or

(d) — where the compound is a compound wherein R₁, R₄' or R₄'' is denoted by a group of the following formula:



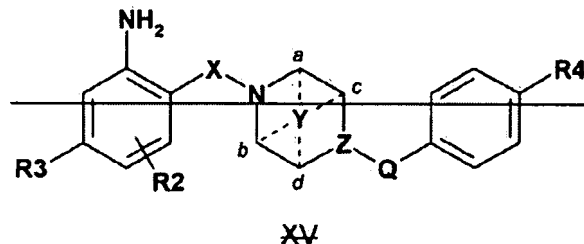
wherein W is O or a nitrogen carrying optional substituents and W' represents optional substituents;

reacting a corresponding compound of formula XII or XIII:



wherein X* represents a leaving group, for example chloro,

with a compound of formula XV:



to produce the desired compound

wherein the substituents of Formulae IV, V, X, XII are as defined in Formula (I) of claim 1 for the corresponding substituents.

18. (Original) A process according to claim 17, further including the step of temporarily protecting any interfering reactive groups and/or then isolating the resulting compound of the invention.

19. (New). The compound of claim 1 wherein R1, R2 and R3 are independently a substituent forming a bicyclic ring system of which the phenyl ring to which it is attached forms part of the bicycle; which substituent is butadiene forming naphthyl, or heterobutadiene forming quinolinyl, quinoxalinyl or isoquinolinyl.

20. (New). The compound of claim 5 wherein R1', R2' and R3' are independently a substituent forming a bicyclic ring system of which the phenyl ring to which it is attached forms part of the bicycle; which substituent is butadiene forming naphthyl, or heterobutadiene forming quinolinyl, quinoxalinyl or isoquinolinyl.